

Please replace paragraph [0037] as follows:

a<sup>3</sup> [0037] Otherwise, the forwarding decision block 280 determines (for example, using a look-up table) an egress port (or output port) and a next hop router through which to route the packet and then passes the packet to the egress filter 206. Once determined, the forwarding plane sends the packet to one or more output/egress ports 210 (210-1, . . . , 210-N). Unfortunately, conventional routers require manual intervention to instruct the control plane to install a filter into egress filter 206. For example, installation of filters into egress filter 200 is generally via the input of filters by an administrator at an administrator workstation.

### IN THE CLAIMS

Please amend the claims as follows:

15. (Amended) A machine readable storage medium including program instructions that direct a system to function in a specific manner when executed by a processor, the program instructions comprising:

a<sup>4</sup> receiving notification of a distributed denial of service attack;  
establishing security authentication from an upstream router from which attack traffic, transmitted by one or more attack host computers, is received; and  
once security authentication is established, transmitting one or more filters to the upstream router such that attack traffic is dropped by the upstream router, thereby terminating the distributed denial of service attack.

16. (Amended) The machine readable storage medium of claim 15, wherein the instruction of detecting the attack traffic further comprises:

monitoring network traffic received by an Internet host; and  
when a distributed denial of service attack is detected, notifying the Internet host of the distributed denial of service attack.

17. (Amended) The machine readable storage medium of claim 15, wherein establishing security authentication further comprises:

transmitting a security authentication request to the upstream router including authentication information, the authorization information including a destination address of the attack traffic; and  
receiving authorization for establishment of security authentication from the upstream router.